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TWENTY-FIRST ANNUAL REPORT

OF THE

Department of Mines and Minerals

OF THE

PROVINCE OF ALBERTA

FOR THE

Fiscal Year Ended March 31st 1970

EDMONTON:
PRINTED BY L. S. WALL, Queen's Printer
1970

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To the Honourable J. W. Grant MacEwan,

Lieutenant Governor of the Province of Alberta

Sir:

I have the honour to submit the Report of the Department of Mines and Minerals for the fiscal year ended March 31st, 1970.

I have the honour to be, Sir,

Your obedient servant,

A. RUSSELL PATRICK,

Minister of Mines and Minerals

Edmonton, July 7, 1970.

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CHIEF OFFICERS
DEPARTMENT OF MINES AND MINERALS
MARCH 31st, 1970

Hon. A. Russell Patrick ..... *Minister*
H. H. Somerville ..... *Deputy Minister*
P. G. Schmidt ..... *Solicitor*
L. M. L. Rokosh ..... *Statistician*
B. P. P. Muir ..... *Accountant*
T. H. Gladders ..... *Personnel Officer*

MINERALS DIVISION

R. A. Seaton ..... *Director*
D. R. Jordan ..... *Assistant Director*
F. Holubowich ..... *Supervisor of Revenue*
W. H. Roy ..... *Supervisor of Reservations, Permits and Licences*
B. R. Nimchuk ..... *Supervisor of Leases and Mining Recorder, Edmonton District*
D. C. MacMillan ..... *Mining Recorder, Calgary District*

MINERAL TAX DIVISION

I. M. Harrington ..... *Superintendent*
N. B. Adam ..... *Assistant Superintendent*
W. McGechie ..... *Chief Assessor*

MINES DIVISION

P. Melson ..... *Director*

PIPE LINE DIVISION

A. L. Berry ..... *Superintendent*
G. W. B. Bullymore ..... *Assistant Superintendent*

TECHNICAL DIVISION

J. M. Novak ..... *Superintendent*
E. G. Staniforth ..... *Assistant Superintendent*
E. D. Barnard ..... *Supervisor of Records*

TWENTY-FIRST ANNUAL REPORT

OF THE

Department of Mines and Minerals

HONOURABLE A. RUSSELL PATRICK,
Minister of Mines and Minerals,
Edmonton, Alberta.

Sir:

I have the honour to present the Annual Report of the Department of Mines and Minerals for the fiscal year ended March 31, 1970.

For the second consecutive year Alberta's oil and gas industry realized a value of production exceeding one billion dollars. This is a noteworthy achievement considering the rapidly increasing activity in Canada's Northland areas.

Increases in exploration and development activity were experienced by most sectors of Alberta's oil and gas industry. Crude oil production in 1969 totalled 279.9 million barrels, an increment of nearly 30 million barrels or 11 per cent over the previous year. Natural gas marketed rose to 1.3 trillion cubic feet from 1.1 trillion cubic feet in 1968. Pentanes plus production increased by 5.4 million barrels or 17 per cent to a total of 36.4 million barrels while butane production gained nearly 10 per cent from 9.5 million barrels to 10.4 million barrels. Sulphur production rose by 23 per cent to a total of 3.7 million long tons, compared to 3.0 million long tons produced the previous year.

Exploration and development activity, measured in terms of footage drilled remained relatively stable at 8.7 million feet in 1969 compared to 8.9 million feet in 1968 with most drilling focussed on the foothills region.

Alberta's reserves of crude oil, natural gas, natural gas liquids and sulphur continue to grow. To December 1969, reserves of crude oil totalled 7.7 billion barrels, natural gas 45.2 trillion cubic feet, natural gas liquids 2.2 billion barrels and sulphur 165.4 million long tons.

Natural gas processing plant capacity has again been expanded through the construction of new plants and the extension of existing facilities. During 1969, twelve new gas processing plants costing a total of approximately $27 million were completed and placed on stream. Several of these new plants are located along the foothills as a direct result of recent discoveries of sour gas in the area. At the end of the year there were 116 natural gas processing plants

in operation in the Province. In 1969 of the total 1.3 trillion cubic feet of natural gas marketed some 229 billion cubic feet were sold in Alberta, 531 billion cubic feet were marketed in the United States and the remainder was sold to other Provinces in Canada.

Twenty-seven additional communities received natural gas service during the year. There are now more than 350 communities in Alberta served with natural gas including all of our cities, over ninety per cent of our towns and over half of our villages.

Major pipe line construction projects completed during the 1969-70 fiscal year include Alberta Gas Trunk Line Company's 230-mile gas transmission line from the Flat, Boyle, Figure Lake, Bellis and Craigend fields to existing facilities at Provost. Also completed was an 82-mile extension to the company's main foothills transmission line together with 72 miles of laterals gathering gas from the Gold Creek, Simonette, Waskahigan and Sturgeon Lake South fields in Northwestern Alberta.

Dome Petroleum has completed a pipe line for the transmission of propane, butanes and pentanes plus from Cochrane to Edmonton. The line consists of 195 miles of 8-inch pipe. Northwestern Utilities Limited has completed construction of a 68-mile, 8-inch diameter pipe line from the Simonette gas field to Grande Cache. This pipe line supplies gas to McIntyre Coal Mines Ltd. for the drying of coking coal prior to shipment to Japan.

Gulf Canada Ltd. commenced construction of an 80,000 barrel per day crude oil refinery in Edmonton early in 1969. Field construction is under way and the new units are expected to go on stream early in 1971. This refinery will be the largest in Western Canada.

In September 1969 approval was granted to Syncrude Canada Ltd. for the construction of a $200 million oil sands extraction plant near Fort McMurray. Site preparation and other preliminary work is scheduled for 1972 with major plant construction to start in 1974. The plant, authorized for the daily production of 50,000 barrels of crude oil, 25,000 barrels of specialty oils and 5,000 barrels of naphtha, is expected to be completed by 1976.

In February, Alberta's first coal shipment destined for the Japanese steel industry ear-marked a promising future for Alberta's coal industry. Existing contracts require some fifteen years to be filled and further contracts for export are expected.

Faced with a surplus in production and a severe drop in prices, Alberta sulphur producers joined forces to lower shipping costs by utilizing unit trains. These are full trainloads of any single commodity. The first unit trains carrying Alberta sulphur arrived at the Pacific Coast in March and unit trains continue to operate on a twice weekly schedule from four shipping points in Alberta to storage facilities near Vancouver.

During the 1970 session of the Legislature, The Expropriation Procedure Act was amended to transfer jurisdiction from the Public Utilities Board to the Board of Arbitration appointed under The Right of Entry Arbitration Act with respect to expropriation proceedings for pipe lines, power lines, telephone lines and for dam sites, reservoirs

or other works required by a company under The Water Resources Act. The transfer came into effect on July 1st.

Amendments were also made to The Oil and Gas Conservation Act, 1969, broadening the scope of the Act to permit The Oil and Gas Conservation Board to take measures to control pollution arising from any drilling or producing operations.

During the fiscal year 2,138 Reclamation Certificates and 101 Orders to perform work were issued under The Surface Reclamation Act. Since that Act came into force on June 1, 1963, a total of 11,663 Certificates and 1,155 Orders have been issued.

Mr. Walter E. Shillabeer, Administrative Accountant and Personnel Officer of the Department of Mines and Minerals retired in June of 1969, following thirty-six years of Government service. Mr. Shillabeer joined the Alberta Civil Service in 1933 as a member of the Accounting Section of the Department of Lands and Mines. In 1949, when the Department was divided, he became the Administrative Accountant for the Department of Mines and Minerals.

A separate report regarding the operation of coal mines and quarries may be obtained from the office of the Mines Division in the Agriculture Building, 9718 - 107 Street, Edmonton 6, Alberta.

Detailed reports of the other Divisions follow.

H. H. Somerville,
Deputy Minister

July 3, 1970.

MINERALS DIVISION

Report of the Director of Minerals

ROBERT A. SEATON

In the twenty-first year of administration by the Department of Mines and Minerals, mineral exploration and development continued at a satisfactory rate.

Footage drilled for petroleum and natural gas during 1969 was 8,679,608 feet. This was a decrease of 191,476 feet from the previous year. The production of crude oil increased to 279,898,068 barrels, an increase of 28,436,228 barrels from 1968. The number of producing wells increased from 13,733 to 13,897 and were capable of maintaining an average daily rate of production of 1,610,000 barrels at December 31, 1969 under good production practice in accordance with sound engineering and economic principles. Because of inadequate markets the average daily oil produced during the year was only 766,844 barrels, an increase of 11.3 per cent from the previous year. There were 1,866 licences issued to drill for oil or gas during 1969 compared with 2,061 licences during the previous year.

Production of coal in Alberta in 1969 increased by 500,946 tons.

The production and value of Alberta's chief minerals for 1969 were crude oil, 279,898,068 barrels valued at $740,367,188; pentanes plus, 36,412,082 barrels valued at $97,563,903; coal, 4,426,060 tons valued at $13,483,048; natural gas marketed, 1,271,558,533 Mcf. valued at $127,155,853; salt, 75,067 tons valued at $2,739,413; sulphur, 3,653,957 tons valued at $83,835,397; propane, 16,616,180 barrels valued at $13,346,682 and butane, 10,419,388 barrels valued at $21,313,356.

Mineral rights, solid, liquid and gaseous, the property of the Crown in right of Alberta, are not sold, but are disposed of by lease, reservation, licence, permit or other agreement for limited periods of time. Revenue is obtained from fees, rentals, bonuses, royalties, sales of leases and other miscellaneous charges. During the fiscal year these sources provided a revenue of $256,421,834.55, a decrease of $28,534,475.23 from the previous year. Sales of leases and reservations in Crown Reserves were held on four occasions in the fiscal year and the revenue from this source decreased by 33 million dollars from the previous year.

The Province is divided into two mining districts; the Edmonton district comprises that portion of the Province lying to the north of the north boundary of Township 42 and the balance of the Province lying to the south is contained in the Calgary district.

During the year 5,143 applications for mineral rights were filed at the office of the Mining Recorders in Edmonton and Calgary and at the office of the Department in Edmonton. Many inquiries were made as to the availability of mineral rights, mostly for petroleum and natural gas leases and reservations by personal application and by correspondence.

A tabulation of leases together with statements of business transacted follows.

MINERAL LEASES

Type of Lease	Active at April 1, 1969	Issued	Reinstated	Divided	Cancelled	Renewed	Active at March 31, 1970
Petroleum and Natural Gas	31,127	4,575	112	233	2,135	—	33,912
Natural Gas	1,208	54	—	9	3	—	1,268
Petroleum	13	5	—	—	—	—	18
Coal	535	71	—	—	17	29	560
Road Allowance Coal	94	5	—	—	8	3	88
Quarrying	89	8	—	—	5	—	92
Salt	2	—	—	—	—	—	2
Bituminous Sands	83	—	—	—	—	—	83
Oil Sands	39	6	—	—	2	—	43
Iron	5	—	—	—	—	—	5
Sodium Sulphate	2	—	—	—	—	—	2
Miscellaneous	8	—	—	—	—	—	8
TOTAL	33,205	4,724	112	242	2,170	32	36,081

ACREAGE COMPRISED IN ABOVE LEASES

Type of Lease	Active at April 1, 1969	Issued	Reinstated	Cancelled	Renewed	Active at March 31, 1970
Petroleum and Natural Gas	34,975,125	10,082,115	199,328	2,715,511	—	42,541,057
Natural Gas	4,416,032	251,648	—	19,496	—	4,648,184
Petroleum	43,994	11,329	—	—	—	55,323
Coal	347,908	71,242	—	1,675	6,576	410,899
Quarrying	19,012	1,342	—	1,421	—	18,933
Salt	1,204	—	—	—	—	1,204
Bituminous Sands	2,658,663	—	—	—	—	2,658,663
Oil Sands	1,121,832	189,045	—	12,936	—	1,297,941
Iron	40,057	—	—	—	—	40,057
Sodium Sulphate	2,136	—	—	—	—	2,136
Miscellaneous	893	—	—	—	—	893
TOTAL	43,626,856	10,606,721	199,328	2,751,039	6,576	51,675,290

STATEMENT OF BUSINESS TRANSACTED, 1969-1970

PETROLEUM AND NATURAL GAS

	Number	Acres
Leases issued	4,575	10,082,115
Leases cancelled and relinquished	2,135	2,715,511
Leases reinstated	112	199,328
Reservations issued	152	5,132,615
Reservations terminated	277	14,363,112
Crown reserve drilling reservations issued	90	825,720
Crown reserve drilling reservations terminated	68	572,105
Permits issued	105	1,547,959
Permits terminated	102	1,701,755
Natural gas licences issued	18	260,947
Natural gas licences terminated	16	235,840
Crown reserve natural gas licences issued	11	117,600
Crown reserve natural gas licences terminated	9	92,708
Natural gas leases issued	54	251,648
Natural gas leases cancelled and relinquished	3	19,496
Petroleum leases issued	5	11,329

Fees, rentals, penalties and bonuses collected	$ 60,933,768.89
Royalties collected	121,098,447.10
Crown reserve sales	70,294,355.77
TOTAL	$252,326,571.76

COAL

	Number	Acres
Leases issued	71	71,242
Leases cancelled and relinquished	17	1,675
Road Allowance Leases—		
Leases issued	5	
Leases cancelled and relinquished	8	
Fees and rentals collected	$511,340.11	
Royalties collected	140,848.41	
TOTAL	$652,188.52	

QUARRYING

	Number	Acres
Leases issued	8	1,342
Leases cancelled and relinquished	5	1,421
Fees collected	$ 100.00	
Royalties collected	81,564.32	
TOTAL	$ 81,664.32	

MISCELLANEOUS

	Number
Oil sands prospecting permits issued	4
Oil sands leases issued	6
Oil sands leases cancelled	2
Quartz mineral exploration permits issued	23
Quartz mineral exploration permits terminated	55
Sulphur prospecting permits terminated	40
Quartz—	
Certificates of Record issued	181
Certificates of Record continued	235
Transfers recorded	9
Roadway Sales	4
Geophysical licences issued	127
Permits to operate geophysical equipment issued	12
Permits to operate geophysical equipment renewed	78
Fees, rentals, royalties and miscellaneous charges	$3,361,409.95

PETROLEUM AND NATURAL GAS

Leases—During the year 4,575 petroleum and natural gas leases were granted comprising 10,082,115 acres and at the close of the fiscal year a total of 33,912 leases were in existence comprising an area of 42,541,057 acres. The Mines and Minerals Act, 1962, which came into force on June 1, 1962, provided that each petroleum and natural gas lease granted following an application made under the Act would be for a term of ten years and at the end of the fiscal year there were 17,740 of these leases comprising 24,180,980 acres. Leases formerly granted were for a term of 21 years and any lease that follows a petroleum and natural gas reservation or Crown reserve drilling reservation that was granted before June 1, 1962 also has a term of 21 years. In the same way if a 21 year lease is transferred only as to a portion or is divided, the new lease for the transferred portion or divided portion also carried the 21 year term.

The revenue received from fees amounted to $44,310.00. The revenue from lease rentals was $34,776,912.78 and the revenue from bonuses accepted by the Mining Recorders at sales of petroleum and natural gas leases by tender amounted to $2,175,040.37. The revenue from compensatory royalty on petroleum and natural gas leases

amounted to $33,309.35 and from drilling extension penalties $1,023,416.68.

Disposal of Crown Reserves—Petroleum and natural gas rights comprised in Crown reserves may be disposed of by order of the Lieutenant Governor in Council and during the year four Crown reserve sales were held and 494 leases and eighteen reservations were purchased. Nine Crown reserve drilling reservation sales were held and ninety drilling reservations were purchased. Two Crown reserve natural gas licence sales were held and eleven Crown reserve natural gas licences were purchased. Particulars of Crown reserve purchases during the year may be obtained from the Department.

Reservations—During the fiscal year 152 reservations were issued comprising an area of 5,132,615 acres and at the close of the year 625 reservations were active comprising an area of 20,081,332 acres.

The revenue from reservation fees amounted to $40,500.00; for extending reservations amounted to $4,094,771.70 and the revenue from bonuses accepted by the Director of Minerals at sales of petroleum and natural gas reservations by tender amounted to $9,572,427.73.

Credit of not in excess of fifty per cent of the approved expenditures incurred in geophysical examination including drilling on petroleum and natural gas reservations may apply to the rental for one year of any lease or leases acquired out of reservations and during the fiscal year under review rentals of $7,648,767.17 were satisfied from such expenditures.

Crown Reserve Drilling Reservations—During the fiscal year 90 drilling reservations were issued comprising an area of 825,720 acres and at the close of the year 132 were active comprising an area of 1,248,357 acres.

The revenue from drilling reservation fees amounted to $22,500.00, from rentals $644,690.50 and the revenue from accepted offers at sales of Crown reserve drilling reservations amounted to $27,758,333.94.

Credit may be granted for expenditures incurred in drilling a well on a drilling reservation and applied in satisfaction of the first year's rental. During the fiscal year rentals on leases acquired out of the reservations of $88,000.00 were satisfied by credit.

Petroleum and Natural Gas Permits—During the fiscal year 105 permits covering an area of 1,547,959 acres were issued and at the close of the year 164 permits were active comprising an area of 2,345,968 acres. The revenue from fees was $1,050.00 and from rentals was $2,217,567.70 and the revenue from accepted offers at sales of permits was $5,035,597.85. Credit of not in excess of fifty per cent may be granted for expenditures incurred in drilling a well on a permit and applied in satisfaction of the first year's rental. During the fiscal year rentals on leases acquired out of the permits of $1,232,197.99 were satisfied by credit.

Natural Gas Licences—During the fiscal year 18 natural gas licences comprising an area of 260,947 acres were issued. The revenue from fees was $3,250.00 and from rentals was $13,493.40. Credit may be granted for expenditures incurred in drilling a well on a natural gas licence and applied in satisfaction of the first year's rental. During the

fiscal year rentals on leases acquired out of the licences of $14,096.00 were satisfied by credit.

Crown Reserve Natural Gas Licences—During the fiscal year eleven Crown reserve natural gas licences comprising an area of 117,600 acres were issued. At the close of the year nineteen licences were active, comprising an area of 215,166 acres. The revenue from fees was $2,750.00, from rentals $18,048.00 and the revenue from accepted offers at sales of Crown reserve natural gas licences amounted to $546,272.55. During the fiscal year rentals on leases acquired out of licences of $7,590.80 were satisfied by credit.

Natural Gas Leases—During the fiscal year 54 natural gas leases were issued comprising 251,648 acres and at the close of the fiscal year a total of 1,268 leases were in existence comprising an area of 4,648,184 acres. Thirty-nine of the leases were granted out of natural gas licences or Crown reserve natural gas licences and permit the recovery of natural gas from one or more zones specified in the lease. Five leases were issued comprising the balance of the spacing units to permit natural gas wells that were capable of commercial production to be operated at full production allowables, five were issued as the locations were required for unit operations, one was essential for the operation of a gas utility and four were issued for the recovery of gas for domestic purposes.

The annual rental of a natural gas lease is thirty-three and one-third cents an acre. While an adequate market or a market in which the lessee may participate is not available, the annual rental is reduced to ten cents an acre. The revenue from fees was $490.00 and from lease rentals $1,179,273.83.

COAL

In the fiscal year, 71 leases were issued comprising 71,242 acres, being made up of new and renewal and second renewal leases. There are now 560 active leases comprising 410,899 acres. There were five road allowance coal mining leases issued and there are now 88 active. The revenue received from fees was $775.00 and from lease rentals $510,565.11.

Crown royalties collected during the fiscal year were $140,848.41 and the following tonnage of coal subject to royalty was mined.

Coal Leases	1,577,621
Coal Lands and Mineral Sales	389,508
TOTAL	1,967,129

QUARRYING

During the fiscal year eight quarrying leases comprising a total of 1,342 acres were issued.

Extraction of 971,715 tons of limestone and shale, 21,428 cubic yards of clay, 161 tons of sandstone and 525,678 tons of rock from Crown leases was reported and at the close of the fiscal year 92 quarrying leases comprising an area of 18,933 acres were active.

BITUMINOUS SANDS

There was one permit and 83 leases active at the close of the year.

OIL SANDS

There were five permits and 43 leases active at the close of the year.

Alberta Regulation 298/69 filed October 22, 1969 provided former holders of reservations or permits of petroleum and natural gas rights including heavy oils of the Cold Lake type the opportunity to apply for oil sands rights on or before December 31, 1969. Twelve applications for lease were received pursuant to this regulation.

QUARTZ

During the fiscal year 181 certificates of record were issued and 235 certificates of record were continued for a further year.

There were 23 quartz mineral exploration permits issued during the year.

SODIUM CHLORIDE (common salt)

During the fiscal year the plant near Lindbergh operated and reported extraction of 75,067 tons, a decrease of 507 tons from the previous year.

SULPHUR

During the year the remaining forty sulphur prospecting permits comprising 1,563,535 acres were terminated.

The total production of sulphur in Alberta in 1969 was 3,653,957 tons, an increase of 664,369 tons over that reported the previous year. All of this production was recovered in the processing of natural gas.

SODIUM SULPHATE

Two sodium sulphate leases comprising 2,136 acres were active at the close of the year. During the fiscal year the plant near Provost operated and reported extraction of 17,964 tons.

IRON

Five iron leases comprising an area of 40,057 acres were active at the close of the year.

ROADWAY SALES

During the fiscal year four notifications were issued pursuant to section 24 of The Mines and Minerals Act, 1962. Section 24 provides a means whereby minerals in roadways may be returned to the adjacent owner.

WELL LICENCES

During the fiscal year there were 1,809 licences issued for wells to be drilled for the purpose of obtaining oil or gas, 34 licences were issued for the purpose of drilling test holes, six licences were issued for wells to be drilled for the purpose of injecting gas, air, water or other substance to an underground formation, 62 licences were issued for wells to be drilled for the purpose of obtaining water for injection and for domestic water wells at depths in excess of 500 feet and 34 were issued for geological information. Since January 1, 1968, well licences have been issued by the Oil and Gas Conservation Board.

DRILLING STATISTICS

The drilling and production of petroleum and natural gas wells in the Province were administered by the Oil and Gas Conservation Board, 603 - 6th Avenue South West, Calgary 1, Alberta, and particulars as to the drilling activity, production and statistical data are included in weekly, monthly and annual reports issued by the Board.

GEOPHYSICAL AND GEOLOGICAL EXPLORATION

During the fiscal year 127 licences and 12 permits were issued and 78 permits were renewed.

UNIT OPERATION OF MINERALS

During the fiscal year 25 agreements pursuant to Part VIII of The Mines and Minerals Act, 1962, were entered into for unit operation of petroleum and natural gas properties. These agreements were:

Hamcor Unit No. 1
Provost Viking A Unit
Warburg Belly River 'M' Unit
Wildunn Gas Unit
Rich Gas Unit No. 1
Pembina Keystone Cardium Unit No. 3
Olds Unit No. 2
Marten Hills South Gas Unit No. 1
South Buck Lake Cardium Unit No. 1
Westlock Gas Unit
Lone Pine Creek Gas Unit No. 2
Coutts Moulton A Unit No. 1
Berry Gas Unit
Joffre D-2 Unit No. 1
Brownfield Gas Unit
Pembina Cardium Unit No. 15
Ferrier Cardium Unit 3
Willesden Green Cardium Unit No. 9
Nordegg Gas Unit No. 1
Marten Hills Gas Unit No. 1
Chauvin South Sparky Unit No. 1
Okotoks Gas Unit No. 2
Kaybob South Beaverhill Lake Gas Unit No. 3
Jenner Gas Unit No. 1
Zama Keg River CC Unit — Alberta

Where a person is required by or has the approval of the Oil and Gas Conservation Board to proceed with a scheme to inject any substance into an underground formation, he is permitted by section 186 of The Mines and Minerals Act, 1962, to proceed with the scheme without obtaining an agreement.

There were 74 schemes in which Crown mineral rights were involved. Thirty-two schemes authorized the injection of water for oil recovery enhancement. One scheme authorized the injection of natural gas liquids and dry gas for oil recovery enhancement. Four schemes authorized the injection of gas for storage purposes. Three schemes authorized pilot tests for injection of water for oil recovery enhancement. Two schemes authorized injection of gas for oil recovery enhancement. One scheme authorized the injection of water, natural gas liquids and dry gas for oil recovery enhancement. One scheme authorized the return of refinery plant waste liquid to a subsurface formation. Thirty schemes authorized the return of salt water produced with petroleum and natural gas to subsurface formations.

STAFF

At the close of the fiscal year the Division staff numbered 74 and they continued to perform their duties in an efficient manner.

MINERAL TAX DIVISION

Report of the Superintendent

I. M. HARRINGTON

Producing area tax revenue for the fiscal year ending March 31, 1970, amounted to $1,494,216.92, an increase of $35,040.76 from the previous year's revenue of $1,459,176.16. The rate of tax on the 1969 assessment was eight mills.

Mineral tax based on acreage for the fiscal year was received in the amount of $928,707.99, an increase of $36,637.90 from the $892,070.09 received in the preceding year. The rate of tax was five cents an acre.

Nine areas were added to the designated producing areas for the year 1969 and were assessed as unitized areas, with assessments being made in accordance with the tract factors listed in the Unit Agreements filed with the Department. These areas were Aerial, Alderson, Equity, Ferrier, Jumping Pound West, Lake McGregor, Pembina East, Seven Persons Creek and Vulcan.

The following is a list of all designated producing areas showing the number of parcels assessed, minerals assessed and the assessed value.

Producing Area	Parcels Assessed	Principal Mineral	Assessed Value
Acheson	28	Petroleum and Natural Gas	$ 5,271,625.15
Aerial	7	Petroleum	42,922.07
Alderson	132	Petroleum and Natural Gas	411,007.95
Alexander	13	Natural Gas	81,231.35
Beaverhill Lake	119	Natural Gas	173,568.69
Bentley	27	Petroleum	502,633.22
Bindloss	4	Natural Gas	36,490.44
Bittern Lake	14	Natural Gas	219,765.20
Blackfoot	3	Petroleum	59,045.37
Bon Accord	36	Natural Gas	247,128.45
Bonnie Glen	23	Petroleum and Natural Gas	15,611,170.63
Buck Creek	3	Petroleum and Natural Gas	204,273.74
Buffalo Lake	3	Petroleum	409,130.97
Calgary	265	Petroleum and Natural Gas	6,872,998.11
Campbell	14	Petroleum and Natural Gas	161,455.38
Carstairs-Elkton	143	Petroleum and Natural Gas	6,289,653.84
Cessford	19	Petroleum and Natural Gas	476,393.69
Chauvin	6	Petroleum	463,564.33
Clive North	15	Petroleum and Natural Gas	283,682.46
Condor	2	Petroleum and Natural Gas	43,477.39
Crossfield	81	Natural Gas	2,105,901.54
Dorothy	1	Natural Gas	754.11
Duhamel	3	Petroleum	143,448.86
Equity	17	Natural Gas	58,726.80
Erskine	21	Petroleum and Natural Gas	1,429,279.12

Ferrier	7	Petroleum	22,138.43
Fort Saskatchewan	116	Natural Gas	943,893.70
Garrington	75	Petroleum and Natural Gas	1,724,797.88
Ghost Pine	26	Natural Gas	159,682.94
Gilby	15	Petroleum and Natural Gas	1,041,487.15
Hackett	10	Natural Gas	70,663.72
Hamilton Lake	6	Petroleum	49,978.35
Harmattan-Elkton	74	Petroleum and Natural Gas	7,491,516.36
Homeglen-Rimbey	51	Petroleum and Natural Gas	2,746,918.01
Hughenden	1	Petroleum	17,927.76
Hussar	448	Petroleum and Natural Gas	5,892,295.04
Innisfail	19	Petroleum and Natural Gas	4,335,317.42
Joarcam	61	Petroleum	4,901,027.34
Joffre	41	Petroleum	1,554,038.77
Jumping Pound	84	Natural Gas	931,372.78
Jumping Pound West	42	Natural Gas	579,372.32
Kessler	30	Natural Gas	51,131.63
Lake McGregor	5	Natural Gas	58,408.74
Leafland South	4	Petroleum and Natural Gas	306,581.25
Leduc	129	Petroleum and Natural Gas	11,421,503.09
Lone Pine Creek	20	Natural Gas	265,012.82
Lookout Butte	6	Natural Gas	450,612.60
Medicine Hat-Roseglen	20	Natural Gas	62,235.62
Namao	10	Petroleum and Natural Gas	221,346.58
Nevis	112	Natural Gas	1,597,508.36
Okotoks	98	Natural Gas	934,316.35
Olds	87	Petroleum and Natural Gas	793,279.05
Oyen	2	Natural Gas	10,955.03
Paddle River	1	Natural Gas	5,489.12
Patricia	15	Natural Gas	50,262.49
Pembina	14	Petroleum and Natural Gas	1,091,522.51
Pembina East	16	Petroleum	1,800,622.81
Pincher Creek	22	Natural Gas	1,035,300.93
Provost	184	Petroleum and Natural Gas	607,405.37
Redland	87	Petroleum and Natural Gas	830,359.05
Redwater	17	Petroleum and Natural Gas	8,323,722.31
Sarcee	1	Natural Gas	313,596.89
Seven Persons Creek	124	Natural Gas	65,811.98
South Sibbald	1	Natural Gas	3,043.69
Stettler	12	Petroleum and Natural Gas	1,663,807.74
Sundre	2	Petroleum and Natural Gas	49,336.62
Sunnynook	1	Natural Gas	8,976.90
Sylvan Lake	140	Petroleum and Natural Gas	4,050,618.66
Three Hills	1	Petroleum	3,245.05
Three Hills Creek	62	Natural Gas	176,639.25
Turner Valley	59	Petroleum and Natural Gas	2,694,456.91
Twining	5	Petroleum	46,381.72
Viking-Kinsella	415	Natural Gas	442,110.01
Vulcan	11	Natural Gas	129,902.38

Wainwright	34	Petroleum and Natural Gas	2,726,527.32
Wayne-Rosedale	11	Natural Gas	127,367.31
Westerose	5	Petroleum and Natural Gas	6,094,443.23
Westerose South	21	Natural Gas	3,752,368.15
Westward Ho	6	Petroleum	1,196,520.21
Wildcat Hills	11	Natural Gas	869,340.65
Willesden Green	7	Petroleum and Natural Gas	483,245.74
Wimborne	47	Petroleum and Natural Gas	1,106,495.74
Wizard Lake	8	Petroleum and Natural Gas	11,901,738.30
Wood River	21	Natural Gas	106,698.05

In addition to the designated producing areas, there were 1,043 parcels assessed for a total assessed value of $46,153,426.61 with the principal minerals assessed being petroleum, natural gas, coal and salt.

Under the heading of parcels assessed are the number of items appearing on the assessment roll with each parcel relating to the area contained in a certificate of title. In determining the assessed value of a parcel, each production spacing unit or unit tract is calculated separately; consequently, several calculations may be made in arriving at the assessment for a parcel.

There were 199 mineral tax certificates issued during the fiscal year with revenue derived therefrom being $99.50. A tax certificate shows the amount of current taxes and arrears payable with respect to the mineral or minerals contained in a certificate of title. Anyone may obtain a certificate for a fee of fifty cents.

Pursuant to The Mineral Titles Redemption Act, after the mineral titles were acquired by the Crown, there were instances where the minerals had been granted under lease, licence, reservation, permit or other agreement, for exploration and development. The statute provides that where the minerals have been granted by the Crown, the return of the title to the former owner must be delayed until the minerals are no longer under lease, licence, reservation, permit or other agreement. In these instances, the former owner is entitled to receive the moneys collected by the Crown less a deduction of an amount equal to the tax that would have been charged had title been returned.

During the fiscal year the amount of moneys collected on existing agreements and returned to former owners was $35,503.14. This brings the total to $547,879.24 that has been returned to former owners since the Act came into force.

There were 3 titles returned to former owners as a result of agreements terminated during the year, making a total of 1,184 titles returned since the inception of the Act. As at March 31, 1970, there were 26 titles, the redemption of which will be delayed until the leases or other agreements terminate.

PIPE LINE DIVISION

Report of the Superintendent of Pipe Lines

A. L. BERRY

During the fiscal year ending March 31, 1970, 4,029 miles of pipe lines were licensed, an increase of 1,060 miles over the mileage licensed during the previous fiscal year.

Expansion of oil transmission facilities necessitated a 93-mile loop of 16-inch diameter pipe paralleling the existing Federated Pipe Lines Ltd. facilities from Swan Hills into Edmonton. Construction commenced in November, 1969 and the line was tested and in service by the end of March.

Dome Petroleum Limited and Pan American Canada Oil Company, Ltd. completed a 195-mile 8-inch diameter line from Cochrane to Edmonton for the transmission of propane, butanes and pentanes plus. Construction commenced in June and testing was completed by January.

Northwestern Utilities, Limited completed a 68-mile 8-inch diameter gas pipe line from the Simonette field to the new coal mine of McIntyre Porcupine Mines Limited at Grande Cache.

A major winter construction project was completed by Alberta Gas Trunk Line Company Limited with the northerly extension to their main foothills transmission line consisting of 82 miles of 36-inch diameter pipe, together with 72 miles of 6-inch, 8-inch and 18-inch laterals gathering gas from the Gold Creek, Waskahigan, Simonette and Sturgeon Lake South fields. Also completed was the remaining 164 miles of the 230-mile gas transmission line from the Flat, Boyle, Figure Lake, Bellis and Craigend fields to existing facilities at Provost.

During the summer of 1970 a large looping program is scheduled by Alberta Gas Trunk Line Company Limited with the proposed addition of 148 miles of 42-inch and 36-inch pipe line. It is significant to note that the 42-inch pipe will be the largest diameter high pressure pipe yet to be installed by the gas industry in Canada.

Gulf Oil Canada Limited will construct an $8\frac{5}{8}$-inch and $10\frac{3}{4}$-inch diameter products pipe line from Edmonton to Calgary, scheduled for completion in the fall of 1970 to coincide with the new Gulf 80,000-barrel per day refinery being built in the Edmonton area.

The Pipe Line Division staff remains unchanged at a total of 19 employees.

The following table shows the mileage and licence statistics related to the various classifications of pipe lines for the year ending March 31, 1970.

SUMMARY OF PIPE LINE LICENCES

	Licensed at March 31, 1969		Licensed During the Year		Cancelled During the Year		Licensed at March 31, 1970	
	Number of Licences	Mileage of Pipe Line	Number of Licences	Mileage of Pipe Line	Number Cancelled	Mileage Cancelled	Number of Licences	Mileage of Pipe Line
Oil Lines	149	4,312.57	21	373.07	—	—	170	4,685.64
Gas Lines	620	6,070.94	30	826.19	2	19.53	648	6,877.60
Secondary Lines for Oil	1,935	3,291.32	89	356.11	19	60.25	2,005	3,587.18
Secondary Lines for Gas	1,357	5,442.14	97	611.48	10	56.53	1,444	5,997.09
Secondary Lines for Water and Other Substances	856	2,354.08	84	280.77	—	9.24	940	2,625.61
Distribution Lines	1,303	2,048.94	131	1,582.33	3	2.63	1,431	3,628.64
Private Lines	323	43.39	—	—	1	—	322	43.39
Mineral Lines	2	1.87	—	—	—	—	2	1.87
	6,545	23,565.25	452	4,029.95	35	148.18	6,962	27,447.02

TECHNICAL DIVISION

Report of the Superintendent of the Technical Division

J. M. NOVAK

The following report summarizes the operations of the Technical Division for the fiscal year ending March 31, 1970.

DRAUGHTING, LAND DESCRIPTIONS AND GENERAL

The series of maps covering approximately forty-eight townships for each area and on a scale of three-quarters of an inch to the mile were drawn covering the following areas:

BRAZEAU RIVER—Townships 37 to 44, Ranges 18 to 23, West of the 5th Meridian.

COLD LAKE—Townships 61 to 68, Ranges 1 to 5, West of the 4th Meridian.

FROG LAKE—Townships 53 to 60, Ranges 1 to 7, West of the 4th Meridian.

LLOYDMINSTER—Townships 45 to 52, Ranges 1 to 7, West of the 4th Meridian.

MacKAY RIVER—Townships 85 to 92, Ranges 16 to 21, West of the 4th Meridian.

MARGARET LAKE—Townships 109 to 117, Ranges 6 to 11, West of the 5th Meridian.

PELICAN—Townships 77 to 84, Ranges 16 to 21, West of the 4th Meridian.

PROVOST WEST—Townships 37 to 44, Ranges 7 to 11, West of the 4th Meridian.

The map of Bellshill Lake area was redrawn and now extends from Townships 37 to 44, Ranges 12 to 16, West of the 4th Meridian.

The map of Provost area was redrawn and now extends from Townships 37 to 44, Ranges 1 to 6, West of the 4th Meridian.

The map of Viking-Kinsella area was redrawn and now extends from Townships 45 to 52, Ranges 8 to 14, West of the 4th Meridian.

All new maps drawn and previously drawn are subject to showing the locations of wells as well licences are granted. When the status of a well changes, it is adjusted on the maps. The limits of fields as established by the Oil and Gas Conservation Board are also included on the maps.

Six maps of the Coal series on a scale of one inch to two miles and showing leases, exploration reservations and freehold were drawn covering the following areas:

CANMORE—Townships 23 to 32, Ranges 1 to 14, West of the 5th Meridian.

COLEMAN—Townships 3 to 12, Ranges 1 to 6, West of the 5th Meridian.

HIGHWOOD—Townships 13 to 22, Ranges 1 to 12, West of the 5th Meridian.

LUSCAR—Townships 43 to 52, Ranges 16 to 28, West of the 5th Meridian.

NORDEGG-BRAZEAU—Townships 33 to 42, Ranges 9 to 22, West of the 5th Meridian.

SMOKY RIVER—Townships 50 to 61, Ranges 1 to 14, West of the 5th Meridian.

The maps are subject to revision as changes and additions occur.

No new maps of the pipe line series were prepared. However, considerable additional information was included on existing maps due to the extension of transmission, gathering and distribution systems.

A total of 6,035 maps were distributed by the Department. A list of maps is available indicating the price of each map.

During the year, 1,876 licences to drill wells were issued, which is a decrease of 170 from the 2,046 licences issued the previous year. The Division searches the ownership of Crown minerals in the spacing unit allocated to the well.

Land descriptions were prepared for all mineral dispositions, as well as descriptions for recommendations to Council.

The photo-reproduction requirements of this Department were processed by the Surveys Branch, Department of Highways. This Division supplies the ozalid print requirements of the Department.

The Records Branch maintains the records in the Department respecting leases, permits, reservations, licences and other agreements and certificates of record. It also provides township plots to the public indicating availability or status of Crown minerals.

During the year 1,874 transfers were registered relating to 8,081 agreements and certificates of record. A comparison with the previous year follows:

	1968-69	1969-70
Petroleum and Natural Gas Leases	3,055	7,298
Petroleum Leases	0	1
Natural Gas Leases	43	143
Petroleum and Natural Gas Permits	22	50
Petroleum and Natural Gas Reservations	170	231
Crown Reserve Drilling Reservations	20	63
Natural Gas Licences	2	3
Crown Reserve Natural Gas Licences	2	2
Coal Leases	34	39
Road Allowance Coal Leases	0	6
Oil Sands Leases	0	20
Bituminous Sands Leases	0	28
Quarrying Leases	5	2
Certificates of Record	19	48
Quartz Mineral Exploration Permits	20	11
Geophysical Licences	1	3
Geophysical Permits	0	6
Sulphur Prospecting Permits	28	1
Pipe Line Permits	9	6
Pipe Line Licences	142	118
Provisional Pipe Line Licences	2	2
TOTALS	3,574	8,081

The documents filed in comparison with the previous year were:

Type of Document	1968-69	1969-70
Mechanic's Lien	9	17
Discharge of Mechanic's Lien	25	16
Bank Securities	227	243
Discharge of Bank Securities	57	101
Hypothecation of Pipe Line	3	1
Lis Pendens	0	1
TOTALS	321	379

Four transfers were issued during the fiscal year for the return of minerals underlying surveyed roadways to owners of adjacent minerals.

ACCOUNTING AND PERSONNEL

Report of the Accountant

B. P. P. MUIR

A surplus of $256,807,445.90 on Income Account was shown for the Fiscal Year ending March 31, 1970.

Net Revenue on Income Account amounted to $258,984,617.09.

Gross Receipts from all sources amounted to $266,612,615.42.

Expenditures on Income Account for the year amounted to $2,177,171.19. Particulars of expenditure may be found in Statement "C".

As at March 31st, 1970 there were 45,327 Accounts Receivable as compared with 42,621 as at March 31st, 1969.

During the year there were 3,280 accounts cancelled or closed and 4,986 opened.

INDEX TO STATEMENTS

A—Statement of Receipts from all sources

B—Statement of Receipts — Income Account

C—Statement of Expenditure by Appropriation and Character

D—Statement of Net Receipts by Divisions

E—Statement of Receipts and Expenditure

F—Statement of Fiscal Revenue for the last five years and Total Revenue for the period April 1st, 1949 to March 31st, 1970.

Statement "A"

STATEMENT OF RECEIPTS FROM ALL SOURCES
From April 1st, 1969 to March 31st, 1970

	Gross Receipts	Refunds	Net Receipts
Income Account (See Statement "B")	$259,330,698.78	$ 346,081.69	$258,984,617.09
Transferred Collections	1,673.62	.....	1,673.62
Suspense (Unapplied receipts carried forward subject to refund)	7,280,243.02	7,080,119.36	200,123.66
	$266,612,615.42	$ 7,426,201.05	$259,186,414.37

Statement "B"

STATEMENT OF RECEIPTS — INCOME ACCOUNT
From April 1st, 1969 to March 31st, 1970

	Gross Receipts	Refunds	Net Receipts
COAL MINING			
Coal Fees, Rentals, etc.	$ 511,370.11	$ 30.00	$ 511,340.11
Coal Royalty	140,848.41	.....	140,848.41
Coal Mines Act Sundry Revenue	2,780.00	59.00	2,721.00
PETROLEUM AND NATURAL GAS			
Petroleum & Natural Gas Fees, Rentals, etc.	61,268,511.85	334,742.96	60,933,768.89
Petroleum & Natural Gas Royalty	121,098,991.22	544.12	121,098,447.10
Crown Reserve Sales	70,294,355.77	.....	70,294,355.77
MISCELLANEOUS			
Oil Sands Fees, Rentals & Royalty	3,133,772.10	.....	3,133,772.10
Quarrying Fees, Rentals & Royalty	81,990.97	326.65	81,664.32
Miscellaneous Mining	237,174.32	9,536.47	227,637.85
MINERAL TAX	2,423,183.10	158.69	2,423,024.41
PIPE LINE ACT SUNDRY REVENUE	12,723.70	50.00	12,673.70
ADMINISTRATION SUNDRY REVENUE	122,301.93	549.50	121,752.43
LANDMAN LICENCE FEES	2,585.00	.....	2,585.00
REIMBURSEMENT OF SALARIES & EXPENDITURES	110.30	84.30	26.00
TOTAL—INCOME ACCOUNT (Carried to Statement "A")	$259,330,698.78	$346,081.69	$258,984,617.09

Statement "C"

EXPENDITURE CLASSIFIED BY APPROPRIATION AND CHARACTER

FOR THE FISCAL YEAR ENDED MARCH 31, 1970

INCOME ACCOUNT

SERVICE	2001 Minister's Office	2002 General Administration	2004 Pipe Line Division	2005 Geological Division	2006 Mines Division	2007 Minerals Division	2008 Mineral Tax Division	2009 Oil and Gas Property Tax	2010 Technical Division	2011 Abandonment of Mining Properties	2012 Redemption of Mineral Titles	2013 Clay & Marl Crown Lease Act	2014 Right of Entry Arbitration Board	2015 Supervisory & Safety Training Program	2016 Surface Reclamation	TOTAL
Advertising						4,970.59										4,970.59
Purchase of Automobile	4,199.90															4,199.90
Automobile, Trucks & Mobil Equipment Expenses		3.00							300.71							303.71
Compensation									10.00						1,001.75	1,011.75
Contracts & Agreements				6,212.00						24,750.69						30,962.69
Entertainment Expenses		59.34														59.34
Fees & Commissions		1,269.72	1,484.62		418.00	410.53			100.00				85.00		163.31	3,931.18
Freight, Express, Cartage		224.50														224.50
Furnishings, Equipment & Tools	462.75	634.50	659.90		418.64	3,758.26			602.34				524.63		41.43	7,102.45
Grants, Prizes														3,600.00		3,600.00
Insurance Premiums		3.93	80.85		40.38								9.44		12.67	147.27
Materials, Supplies, Administrative & Construction	666.49	20,189.13	5,042.38		1,288.15	3,347.56	1,631.83		13,309.80				1,416.95		396.93	47,289.22
Postage	209.00	1,766.36	559.68		375.00	12,616.10	1,397.00		619.00				794.00		743.00	19,079.14
Rentals	89.78								11,534.67						462.00	12,086.45
Refunds & Remissions											35,503.14	4,960.98				40,464.12
Repair & Maintenance of Office Machines & Equipment	104.64	1,463.25	330.94		187.21	1,713.92	649.34		937.01				162.33		64.47	5,613.11
Salaries	20,845.00	226,389.01	168,300.91		74,694.76	405,753.13	125,455.25		343,248.50				108,012.85		149,744.84	1,622,444.25
Taxes								218,270.45								218,270.45
Telephone & Telegraph	1,066.59	1,962.40	4,684.00		317.32	5,980.78	25.89		5,389.33				748.60		4,142.43	24,317.34
Travelling Expenses of Other Than Public Servants		66.00			234.44	1,678.19									15,596.84	17,575.47
Travelling Expenses of Public Servants	1,400.87	6,993.79	37,444.49		9,336.34		2,500.33		1,381.12				8,627.25		44,688.07	112,372.26
Tuition		118.50	94.00			465.00	195.00		273.50							1,146.00
TOTAL: Income Account	29,045.02	261,143.43	218,681.77	6,212.00	87,310.24	440,694.06	131,854.64	218,270.45	377,705.98	24,750.69	35,503.14	4,960.98	120,381.05	3,600.00	217,057.74	2,177,171.19

Statement "D"

STATEMENT OF NET RECEIPTS BY DIVISIONS

For Fiscal Year Ending March 31st, 1970

INCOME ACCOUNT:	
Minerals Division	$256,421,834.55
Mineral Tax Division	2,423,024.41
Mines Division	2,721.00
Pipe Line Division	12,673.70
Miscellaneous (Administration Sundry Revenue, etc.)	124,363.43
TRANSFERRED TO OTHER DEPARTMENTS	1,673.62
SUSPENSE (unapplied receipts carried forward, subject to refund)	200,123.66
	$259,186,414.37

Statement "E"

STATEMENT OF RECEIPTS AND EXPENDITURE

For Fiscal Year Ending March 31st, 1970

Gross Receipts	$266,612,615.42
Refunds	7,426,201.05
Net Receipts	259,186,414.37
Net Revenue on Income Account	258,984,617.09
Total Expenditure from Appropriations	2,177,171.19
Surplus on Income Account	256,807,445.90

Statement "F"

STATEMENT OF FISCAL REVENUE FOR THE LAST FIVE YEARS AND TOTAL REVENUE FOR THE PERIOD APRIL 1, 1949 TO MARCH 31, 1970

	Total Revenue April 1, 1949 to March 31, 1965	1965-66	1966-67	1967-68	1968-69	1969-70	Total Revenue April 1, 1949 to March 31, 1970
COAL							
Fees, Rental and Bonus	$ 1,596,888.01	$ 45,939.70	$ 83,540.35	$ 189,365.87	$ 444,322.05	$ 511,340.11	$ 2,871,396.09
Royalty	3,852,832.11	212,480.32	215,939.09	232,363.54	198,318.02	140,848.41	4,852,781.49
Sundry Revenue	53,613.50	2,372.67	2,302.44	1,615.80	1,352.00	2,721.00	63,977.41
PETROLEUM AND NATURAL GAS							
Fees and Rental	425,642,044.72	57,017,924.27	52,240,050.51	53,824,878.34	55,529,455.95	60,933,768.89	705,188,122.68
Royalty	460,622,244.01	68,634,351.97	80,214,493.81	94,071,940.39	105,122,892.49	121,098,447.10	929,764,369.77
Crown Reserve Sales	784,719,783.04	121,050,115.77	106,225,023.84	69,726,551.37	121,031,177.72	70,294,355.77	1,273,047,007.51
SALT							
Fees and Rental	17,781.40	1,005.60	1,005.60	1,005.60	1,010.60	1,012.55	22,821.35
Royalty	155,068.35	18,163.83	18,656.77	20,481.70	20,486.67	20,784.73	253,642.05
QUARRYING							
Fees and Rental	4,571.71	46.00	31.00	21.00	20.00	100.00	4,789.71
Royalty	759,764.51	88,142.60	83,921.36	79,900.35	80,724.58	81,564.32	1,174,017.72
QUARTZ							
Fees, Rental and Bonus	55,407.76	4,165.00	50.00	38,115.00	92,439.19	140,812.36	330,989.31
OIL SANDS							
Fees, Rental and Royalty	6,225,602.79	881,410.71	870,630.51	1,002,342.59	2,311,872.60	3,133,772.10	14,425,631.30
MINING MISCELLANEOUS							
Fees, Rental and Royalty	2,683,412.26	184,815.27	178,527.84	190,915.47	123,589.91	65,028.21	3,426,288.96
MINERAL TAXATION ACT							
Non-Producing Area Tax	5,504,174.69	541,940.58	572,858.15	552,929.75	892,070.09	928,707.99	8,992,681.25
Producing Area Tax	14,993,909.75	1,379,884.58	1,292,078.41	1,326,667.49	1,459,176.16	1,494,216.92	21,945,933.31
Certificate Fees	14,836.60	171.00	207.00	237.50	129.00	99.50	15,680.60
PIPE LINE ACT SUNDRY REVENUE	59,982.65	11,595.00	12,165.00	12,111.50	12,528.50	12,673.70	121,056.35
ADMINISTRATION SUNDRY REVENUE	1,052,817.50	75,243.34	55,549.13	80,351.73	75,978.46	121,778.43	1,461,718.59
LANDMAN LICENCE FEES	.....	.....	.....	.....	11,855.00	2,585.00	14,440.00
TOTAL	$1,708,014,735.36	$ 250,149,768.21	$ 242,067,030.81	$ 221,351,794.99	$ 287,409,398.99	$ 258,984,617.09	$2,967,977,345.45

Report of the Personnel Officer

T. H. GLADDERS

During the year the position of Administrative Accountant and Personnel Officer was re-assigned as two individual positions and a Department Personnel Officer was appointed.

At the commencement of the year there were 266 established Department positions and 245 positions were occupied. At the end of the year there were 268 established Department positions and 248 positions were occupied, for a net increase during the year of two positions and three employees.

During the year six Department positions were created and four positions were abolished. Sixty-seven employees left the Department and of these eight left the city, thirteen resigned to accept employment outside Government Service, six transferred to other departments, ten left to further their education, two retired, two died and twenty-six left for various other reasons.

A.B.S. OCT 8 '70